

## ABSTRACT

A method of producing a three-dimensional structure contains the steps of: arranging a substrate close to a tip of a needle-shaped fluid-ejection body

5 having a fine diameter supplied with a solution, ejecting a fluid droplet having an ultra-fine diameter toward a surface of the substrate by applying a voltage having a prescribed waveform to the needle-shaped fluid-ejection body, making the droplet fly and land on the substrate, and solidifying the droplet after the fluid droplet is landed on the substrate; further a three-dimensional structure has a fine

10 diameter comprises droplets having an ultra-fine particle diameter, wherein the structure is grown by solidifying the droplets and stacking the solidified droplets.